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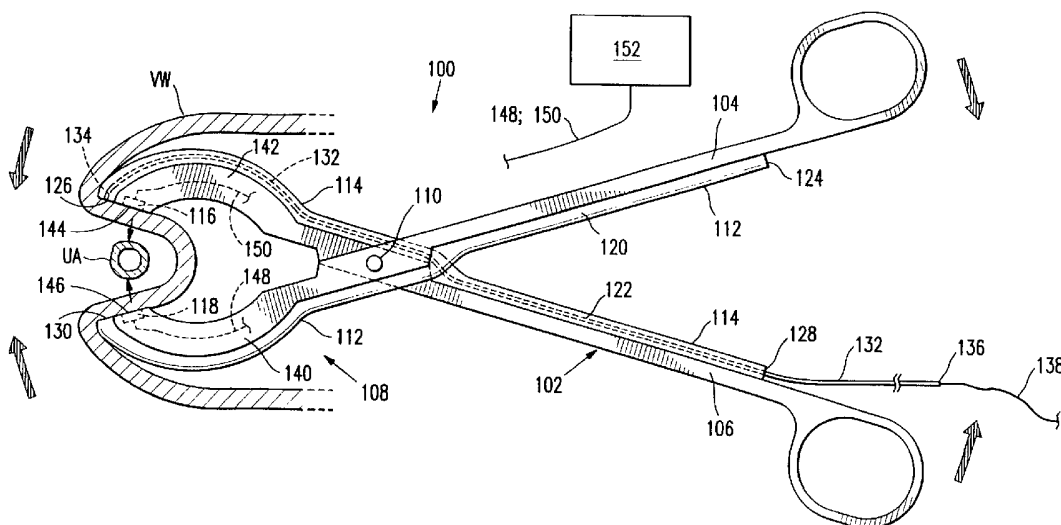
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- (74) Agent: **LYNCH, Edward, J.**; Coudert Brothers LLP, One Market Tower, Spear Street Tower, Suite 2100, San Francisco, CA 94105 (US).
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[Continued on next page]

(54) Title: DOPPLER DIRECTED SUTURING AND COMPRESSION DEVICE AND METHOD



(57) Abstract: A compression and ligation device includes a pair of jaws including one or more Doppler chips oriented to send and receive Doppler signals across the jaws, to assist a practitioner in determining whether or not a uterine artery is between the jaws. A suture leader with an attached suture can be pushed through a channel on one of the jaws, through tissue behind the uterine artery, into another channel on the other jaw, and proximally out the device so that the practitioner can ligate the artery and effect hemostasis.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US 03/10551

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61B17/12 A61B17/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 302 025 A (WHITELEY MARK STEVEN) 8 January 1997 (1997-01-08) page 1, line 1 - line 4 page 2, line 1 - line 6 claim 3; figure 2 ---	1-12
A	US 6 254 601 B1 (JONES MICHAEL ET AL) 3 July 2001 (2001-07-03) cited in the application column 9, line 19 - line 43 column 11, line 53 - line 62 column 13, line 18 - line 57; figure 18B ---	1-12
A	DE 200 22 012 U (HOFSTETTER ALFONS) 10 May 2001 (2001-05-10) page 3, line 28 -page 4, line 5; figure 1 --- -/-	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/10551

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96 05776 A (VESTA MEDICAL INC) 29 February 1996 (1996-02-29) page 1, line 18 - line 22 ----	1
A	SU 1 072 859 A (DO G MED I IM A M GORKOGO) 15 February 1984 (1984-02-15) figure 1 ----	1,7
X,P	US 2002/183771 A1 (ALTIERI GREIG ET AL) 5 December 2002 (2002-12-05) the whole document ----	1-12
X,P	US 2002/188306 A1 (ALTIERI GREIG E ET AL) 12 December 2002 (2002-12-12) the whole document -----	1-12

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 03/10551

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 13-27
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/10551

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